

Product datasheet for **RG212324**

RED1 (ADARB1) (NM_015833) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RED1 (ADARB1) (NM_015833) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADARB1
Synonyms:	ADAR2; DRABA2; DRADA2; NEDHYMS; RED1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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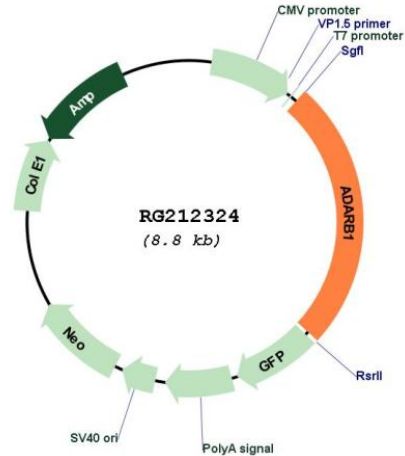
ORF Nucleotide
Sequence:

>RG212324 representing NM_015833
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATATAGAAGATGAAGAAAACATGAGTTCAGCAGCACTGATGTGAAGGAAAACCGCAATCTGGACA
ACGTGTCCCCAAGGATGGCAGCACACCTGGGCCCTGGCGAGGGCTCTCAGCTCTCCAATGGGGTGGTGG
TGGCCCCGGCAGAAAGCGGCCCTTGAGAGGGGCAAGTGGCCACTCCAAGTACCGCTGAAGAAAAGG
AGGAAAACACCAGGGCCCGTCTCCCAAGAACGCCCTGATGCAGCTGAATGAGATCAAGCCTGGTTTGC
AGTACACACTCTGTCCCAGACTGGGCCGTGCACGCGCCTTTGTTTGTATGTCTGTGGAGGTGAATGG
CCAGGTTTTTGGGGCTCTGGTCCACAAAAGAAAAGGCAAACTCCATGCTGCTGAGAAGGCCCTTGAGG
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GCCTCCCTTTTACGTGGGCTCCAATGGGGATGACTCCTTCAGTCCAGCGGGGACCTCAGCTTGTCTGCT
TCCCCGGTGCCTGCCAGCCTAGCCAGCCTCCTCTCCCTGCTTACCACCATTCCACCCCGAGTGGGA
AGAATCCCGTGATGATCTTGAACGAAGTGCGCCAGGACTCAAGTATGACTTCTCTCCGAGAGCGGGGA
GAGCCATGCCAAGAGCTTCGTATGTCTGTGGTGGTGGATGGTCAAGTCTTTGAAGGCTCGGGGAGAAAAC
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GCACGCTGGAACGTGGTGGCATCCAGGATCCCTGCTCAGCATTTCGTTGGAGCCATTTACTTCTCGA
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AGAGGACCTGCCACCTCTACACCCTCAACAAGCCTTTGCTCAGTGGCATCAGCAATGCAGAAGCACGG
CAGCCAGGGAAGGCCCAACTCAGTGTCAACTGGACGGTAGGCGACTCCGCTATTGAGGTCAACAACG
CCACGACTGGGAAGGATGAGCTGGGCCGCGCTCCCGCTGTGTAAGCACGCGTTGACTGTGCTGGAT
GCGTGTGCACGGCAAGGTTCCCTCCCACTTACTACGCTCCAAGATTACCAAGCCCAACGTGTACCATGAG
TCCAAGCTGGCGGCAAGGAGTACCAGGCCCAAGGCGCGTCTGTTACAGCCTTCATCAAGCGGGGGC
TGGGGGCTGGTGGAGAAGCCACCGAGCAGGACCACTTCTCACTCACGCC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Plasmid Map:


ACCN: NM_015833

ORF Size: 2223 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_015833.4](#)

RefSeq Size: 5035 bp

RefSeq ORF: 2226 bp

Locus ID: 104

UniProt ID: [P78563](#)

Cytogenetics: 21q22.3

Domains: DSRM, A_deamin

Protein Families: Druggable Genome

Gene Summary: This gene encodes the enzyme responsible for pre-mRNA editing of the glutamate receptor subunit B by site-specific deamination of adenosines. Studies in rat found that this enzyme acted on its own pre-mRNA molecules to convert an AA dinucleotide to an AI dinucleotide which resulted in a new splice site. Alternative splicing of this gene results in several transcript variants, some of which have been characterized by the presence or absence of an ALU cassette insert and a short or long C-terminal region. [provided by RefSeq, Jul 2008]